

Message Text

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ACTION ACDA-12

INFO OCT-01 EUR-12 EA-10 IO-13 ISO-00 NRC-05 SOE-02
AF-10 ARA-10 CIAE-00 DODE-00 PM-05 H-01 INR-10
L-03 NASA-01 NEA-10 NSAE-00 NSC-05 OIC-02 SP-02
PA-01 DOE-11 CEQ-01 OES-07 SS-15 USIA-06 ACDE-00
DOEE-00 SSO-00 /155 W
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P 231611Z FEB 78
FM USMISSION GENEVA
TO SECSTATE WASHDC PRIORITY 6341
INFO AMEMBASSY LONDON
AMEMBASSY TOKYO
AMEMBASSY STOCKHOLM
AMEMBASSY BONN
AMEMBASSY PARIS
USMISSION USNATO
USMISSION USUN NEW YORK

S E C R E T SECTION 01 OF 02 GENEVA 02870

E.O. 11652: GDS
TAGS: CCD, PARM, US, JA, SW
SUBJECT: CCD: AD HOC SEISMIC EXPERTS GROUP: PROPOSED
EXPERIMENTAL EXERCISE

1. JAPANESE ACTING CCD REP (SAWAI) GAVE U.S. CCD DEL A
PAPER OUTLINING THE JAPANESE PROPOSAL FOR AN EXPERIMENTAL
EXERCISE WITH RESPECT TO AN INTERNATIONAL EXCHANGE OF
SEISMIC DATA AFTER THE AD HOC GROUP OF SEISMIC EXPERTS
SUBMITS ITS REPORT TO THE CCD.

2. TEXT OF JAPANESE PROPOSAL FOLLOWS: "OUTLINE OF THE
EXPERIMENTAL EXERCISES.

THE EXPERIMENTAL EXERCISES MUST BE PLANNED TO ASCERTAIN
MAINLY THE PARTS OF THE PROPOSED SYSTEM THAT HAVE NOT YET
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BEEN TRIED OUT. THE PRACTICAL PURPOSES WILL BE:

- 1) TO MEASURE THE DEGREE TO WHICH NATIONAL FACILITIES
ARE CAPABLE OF PROVIDING THE DATA RECOMMENDED IN THE REPORT
ESPECIALLY THE DATA FOR IDENTIFICATION,
- 2) TO MEASURE THE AMOUNT OF LOSSES AND ERRORS INCURRED

WHEN TRANSMITTING THESE DATA,

- 3) TO INVESTIGATE THE TECHNIQUES AVAILABLE FOR THE TRANSMISSION OF WAVE FORM DATA,
- 4) TO DEVELOP THE INTERNATIONAL DATA CENTRES' CAPACITY TO RECEIVE AND COMPUTE THE RAW DATA FROM THE NETWORK AND DISTRIBUTE THE PROCESSED INFORMATION,
- 5) TO VERIFY EXPERIMENTALLY THE THEORETICAL ESTIMATES CONTAINED IN THE REPORT, FIND OUT THE REASONS FOR ANY DIFFERENCES BETWEEN THEORY AND PRACTICE AND SPECIFY IMPROVEMENTS REQUIRED.

THE EVENTUAL EXPERIMENTAL EXERCISE WILL BE AN ACTUAL AND OVERALL MOBILIZATION OF PARTICIPATING SEISMIC STATIONS, COMMUNICATION SYSTEMS FOR DATA AND INFORMATION EXCHANGE, AND DATA PROCESSING AT THE CENTRES. A SERIES OF EXPERIMENTS WILL, HOWEVER, BE NEEDED BEFORE THE FINAL ONE CAN BE EXECUTED. PROBABLY THE FOLLOWING STEPS WILL BE NECESSARY.

- 1) TO INTERPRET NOT ONLY THE DATA FOR LOCATION BUT ALSO THOSE FOR IDENTIFICATION AT EACH SEISMIC STATION ACCORDING TO THE FORMULA RECOMMENDED IN THIS REPORT AND FIND OUT HOW MUCH EXTRA WORK WILL BE REQUIRED AS A RESULT.
- 2) TO SET UP A LOCAL COMMUNICATION LINKAGE BETWEEN THE SEISMIC STATION AND THE TERMINAL OF WMO/GTS AND FIND OUT
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WHETHER THE INPUT AND OUTPUT OF SEISMIC DATA AND INFORMATION CAN BE MADE WITHOUT LOSSES AND ERRORS. IF THEY ARE ANY, THE COMMUNICATION SYSTEM INCLUDING THE HUMAN OPERATORS MUST BE DEBUGGED. ALSO TO TRANSMIT THE ACTUAL DATA THROUGH WMO/GTS TO THE INTERNATIONAL DATA CENTRES AND FOLLOW THE SAME PROCEDURE AS WILL BE DONE IN THE LOCAL COMMUNICATION TEST.

- 3) TO SEND WAVEFORM DATA TO THE INTERNATIONAL CENTRES THROUGH A NUMBER OF EXISTING CHANNELS.
 - 4) TO PROCESS ROUTINELY THE COLLECTED DATA PROBABLY AT THE SAME TIME AS EXPERIMENT 3) AT THE INTERNATIONAL DATA CENTRES AND DISTRIBUTE THE PROCESSED INFORMATION TO EACH PARTICIPATING STATE CENTRE.
 - 5) FINALLY TO EVALUATE THE RESULTS OF THE EXPERIMENTS, IDENTIFY WHICH PARTS MUST BE MODIFIED OR IMPROVED, AND CONCLUDE THE OPERATIONAL CAPABILITY OF THE SYSTEM IN EACH TERM, NAMELY, DETECTION, LOCATION AND PRODUCTION OF IDENTIFICATION PARAMETERS.
- IN THIS REPORT, SOME FIFTY SEISMIC STATIONS, MORE THAN

ONE INTERNATIONAL DATA CENTRE AND THE COMMUNICATION SYSTEM OF WMO/GTS ARE PROPOSED TO CONSTITUTE THE INTERNATIONAL SEISMOLOGICAL DATA EXCHANGE SYSTEM. BUT, THE PRECISE PLANNING OF HOW TO EXECUTE THE EXPERIMENTS FROM 1) TO 5) AND OF HOW LONG EACH EXPERIMENT SHOULD BE CONDUCTED IS NOT POSSIBLE AT THIS STAGE. BECAUSE, AS OPPOSED TO ABSTRACT THOUGHT OR COMPUTER SIMULATION, IF THE EXPERIMENTS ARE TO BE CARRIED OUT EMPLOYING REAL FACILITIES AND HUMAN OPERATORS, MANY LOGISTIC PROBLEMS MUST ALSO BE SOLVED. LIKEWISE, THE ESTIMATED COST OF THE EXPERIMENTS IS AT PRESENT DIFFICULT TO WORK OUT."

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3. JAPANESE REP ALSO PROVIDED PAPER DATED FEBRUARY 20, 1978, ENTITLED "SOME SUGGESTIONS ON STEPS TO BE TAKEN TO IMPLEMENT THE EXPERIMENTAL EXERCISES." TEXT FOLLOWS:

QUOTE: (1) TO INCORPORATE, IN THE FINAL REPORT OF THE AD HOC GROUP OF SCIENTIFIC EXPERTS TO CONSIDER INTERNATIONAL COOPERATIVE MEASURES TO DETECT AND IDENTIFY SEISMIC EVENTS, A PROPOSAL TO THE EFFECT THAT THE CCD SHOULD DECIDE ON THE CONTINUATION OF THE WORK OF THE GROUP AND ALSO ON ITS NEW TERMS OF REFERENCE;

(2) TO REQUEST THE CCD TO DECIDE ON THE ABOVE PROPOSAL PUT FORWARD BY THE GROUP AND ALSO ON THE HOLDING OF A PREPARATORY MEETING OF EXPERTS FOR THE EXPERIMENTAL EXERCISES IN TOKYO AT AN APPROPRIATE TIME THIS YEAR;

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(3) TO DECIDE, AT THE MEETING IN TOKYO, THE FOLLOWING POINTS TO BE USED DURING THE EXPERIMENTAL EXERCISES (A) PARAMETERS TO BE REPORTED FROM EACH STATION IN THE NETWORK TO THE DATA CENTER, (B) THE FORMAT FOR DATA TRANSMISSION, (C) LEVEL II DATA, (D) DETAILED ANALYSIS PROCEDURES AT DATA CENTERS AND (E) OTHER RELATED MATTERS;

(4) TO SET UP A PROVISIONAL DATA CENTER AND CONDUCT EXPERIMENTAL EXERCISES IN ACCORDANCE WITH THE DECISIONS REFERRED TO IN PARAGRAPH ABOVE. THE JAPANESE DELEGATION CONSIDERS THAT IT IS ADVISABLE, DURING THE ABOVE MENTIONED EXPERIMENTAL EXERCISES, TO USE AS A BASIS THE "OUTLINE OF THE EXPERIMENTAL EXERCISES" WHICH THE JAPANESE EXPERT SUGGESTED IN THE SAID GROUP LAST SUMMER. END QUOTE

4. JAPANESE ACTING REP SAID THAT HE HAD ASKED USSR REP LIKHATCHEV ABOUT SOVIET REACTION TO PROPOSAL FOR EXPERIMENTAL EXERCISE AND POSSIBILITY OF HOLDING PREPARATORY MEETING IN TOKYO. LIKHATCHEV RESPONDED THAT HE WOULD NOT BE IN A POSITION TO CONSIDER THE MATTER UNTIL THE CCD RECEIVES THE REPORT OF THE AD HOC GROUP OF SEISMIC EXPERTS. (THE FINAL DRAFT OF THE REPORT IS EXPECTED TO BE TRANSMITTED ON MARCH 10.) LIKHATCHEV ADDED THAT THE AD HOC GROUP OF SEISMIC EXPERTS WAS UNDER CCD AUSPICES AND COULD ONLY MEET IN GENEVA WHILE THE CCD IS IN SESSION. WHEN PROBED LIKHATCHEV DID NOT RULE OUT AN INFORMAL MEETING IN TOKYO OF STATES INTERESTED IN THE EXPERIMENTAL EXERCISE. THE ACTING JAPANESE REP HAD THE CLEAR IMPRESSION THAT THE SOVIETS WOULD NOT AGREE TO THE CCD MANDATING SUCH A MEETING IN TOKYO. HE SAID THAT IT WAS ALSO NOT CLEAR WHETHER THE SOVIETS MIGHT BE PREPARED TO PARTICIPATE IN AN EXPERIMENTAL EXERCISE. VANDEN HEUVEL

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